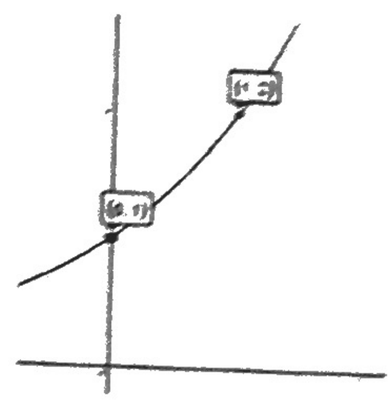
7.09 – Remember the Graphs?

Name Key

The graph of $f(x) = 2^x$ will have points at _____ and _____.

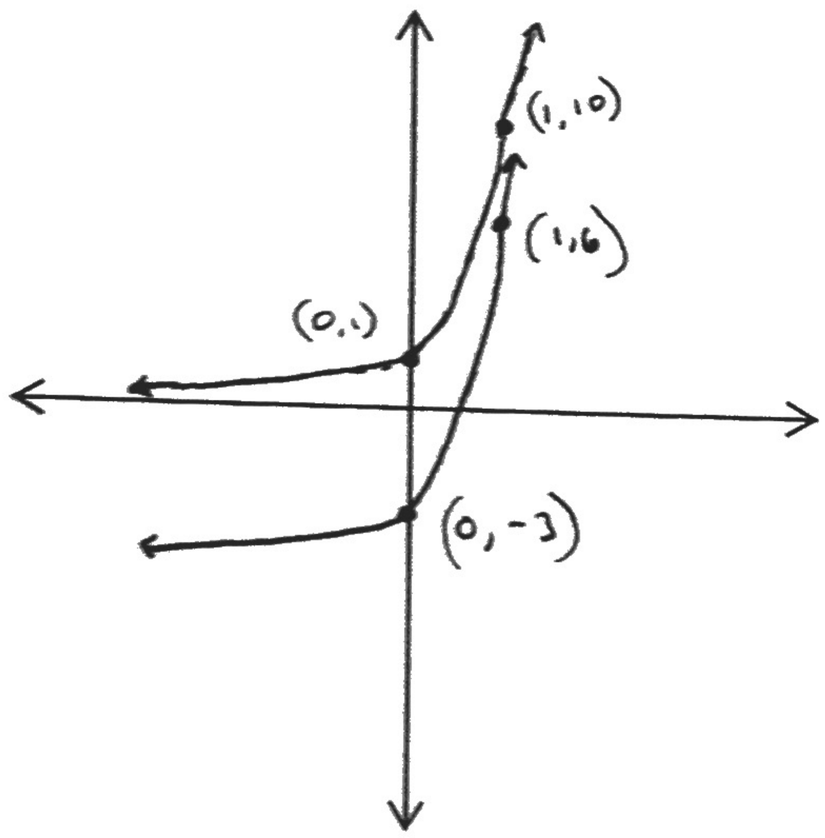
The graph of $f(x) = e^x$ will have points at _____ and _____.

<u>Generalize:</u> The graph of $f(x) = b^x$ will have points at _____ and _____.

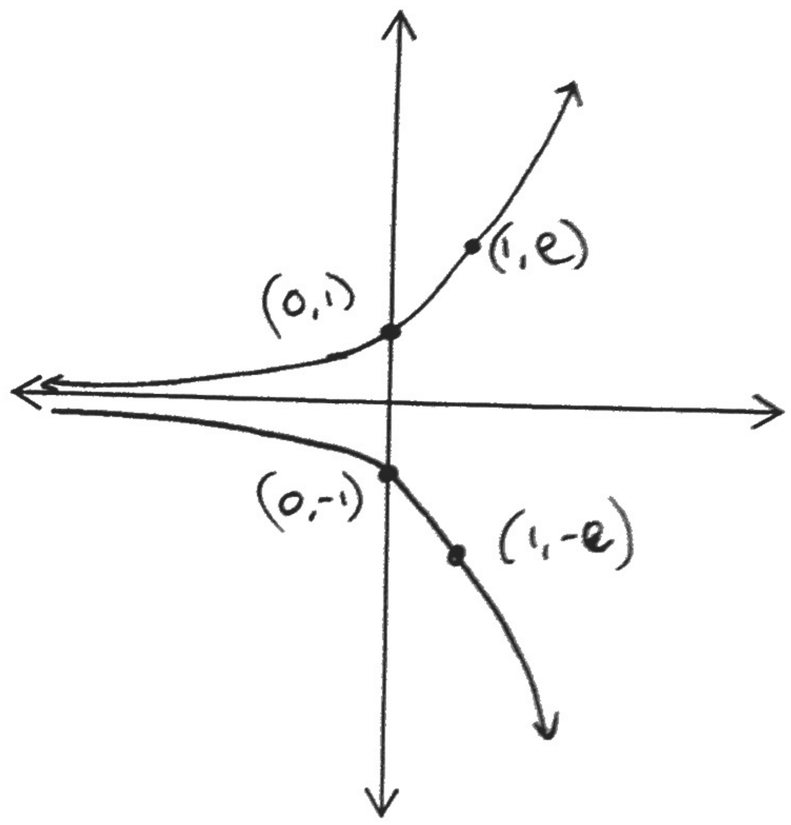


Graph each of the following function pairs together. Use two points as stated above.

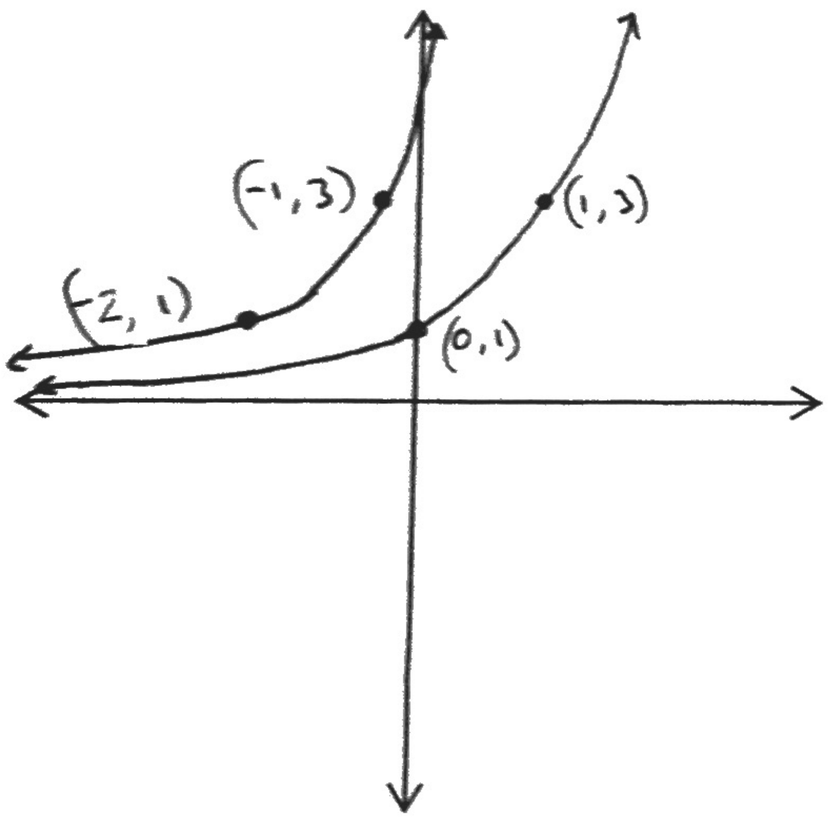
$f(x) = 10^x$
$g(x) = 10^x - 3$



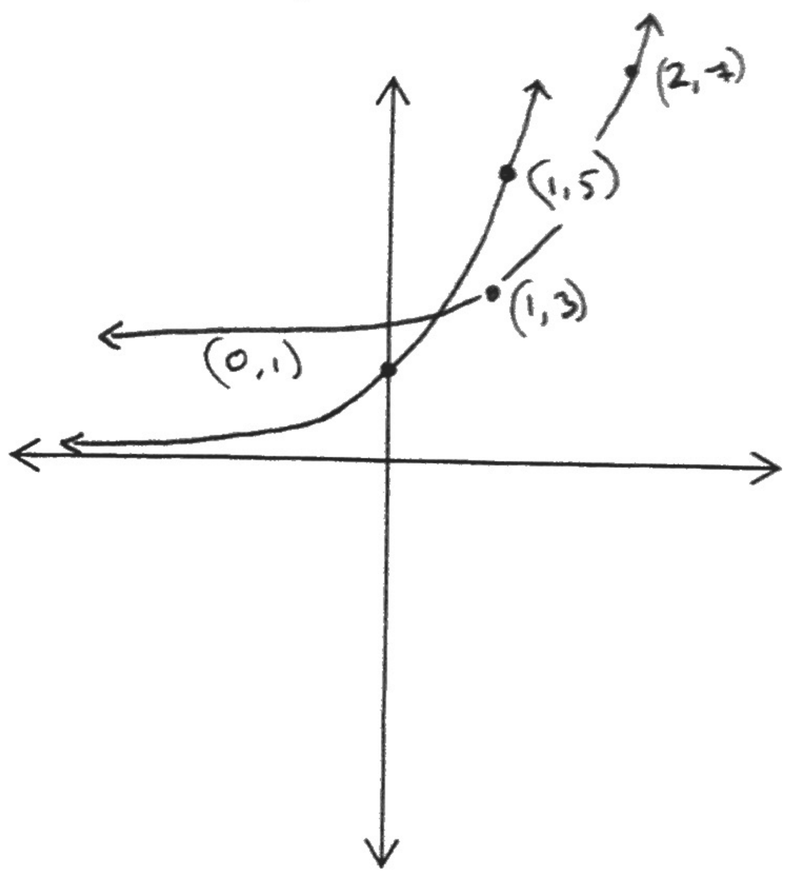
$f(x) = e^x$
$g(x) = -e^x$



$f(x) = 3^x$
$g(x) = 3^{(x+2)}$



$f(x) = 5^x$
$g(x) = 5^{(x-1)} + 2$



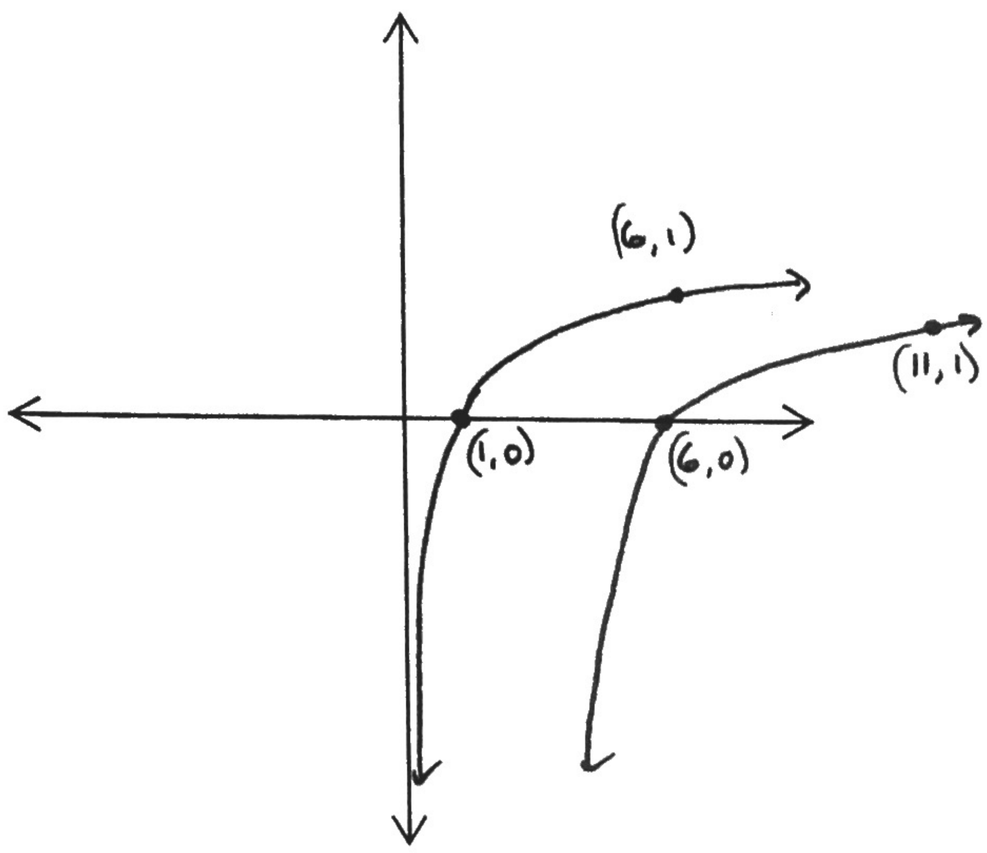
The graph of $f(x) = \log_6(x)$ will have points at _____ and _____.

The graph of $f(x) = \ln x$ will have points at _____ and _____.

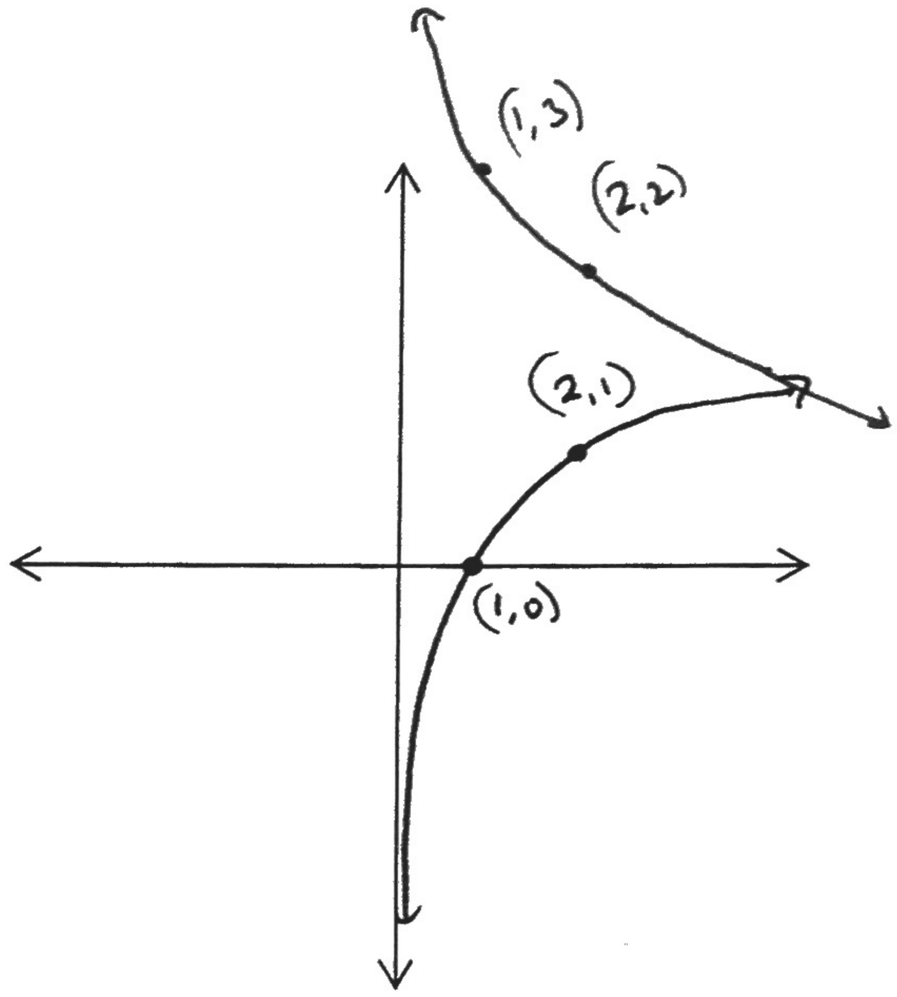
<u>Generalize:</u> The graph of $f(x) = \log_b(x)$ will have points at _____ and _____.

Graph each of the following function pairs together. Use two points as stated above.

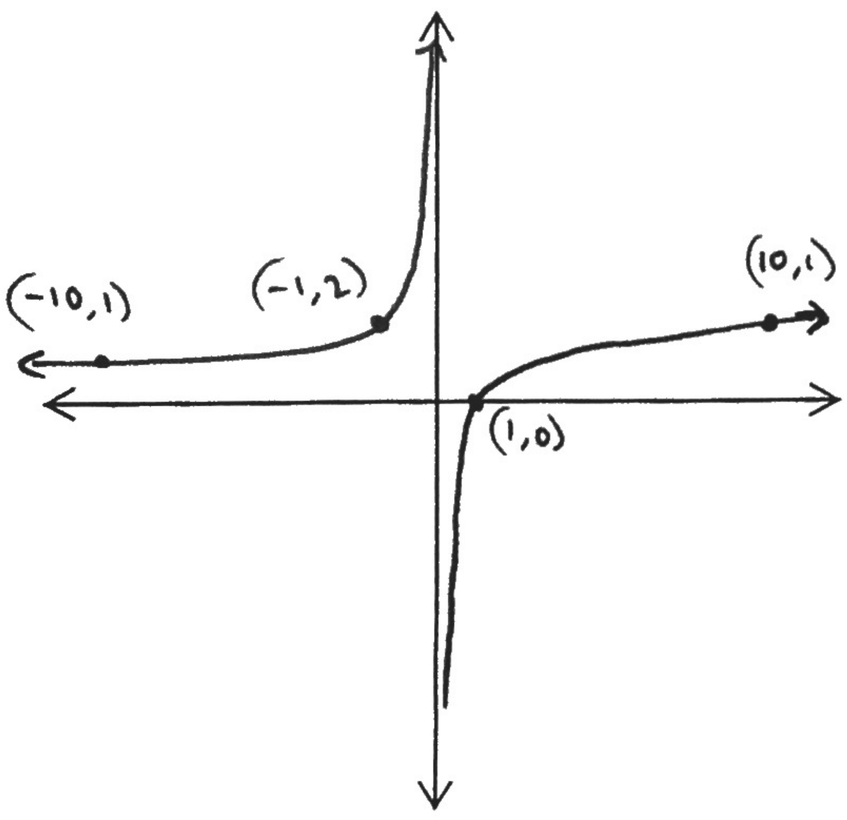
$f(x) = \log_6(x)$
$g(x) = \log_6(x-5)$



$f(x) = \log_2(x)$
$g(x) = -\log_2(x) + 3$



$f(x) = \log x$
$g(x) = \log(-x) + 2$



$f(x) = \ln(x)$
$g(x) = 2\ln(x) - 4$